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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,002	03/01/2002	Muneo Furuse	500.41298X00	1139	
20457	7590 04/01/2004		EXAMINER		
	LI, TERRY, STOUT & H SEVENTEENTH STRI	DEO, DUY VU NGUYEN			
SUITE 1800		ART UNIT	PAPER NUMBER		
ARLINGTO	N, VA 22209-9889	1765			
			DATE MAILED: 04/01/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		* * */	Application	No.	Applicant(s)					
			10/085,002		FURUSÉ ET AL.					
Office	Action Summary	. [Examiner		Art Unit					
			DuyVu n De		1765					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED THE MAILING D - Extensions of time mafter SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply within Any reply received b	STATUTORY PERIOD F ATE OF THIS COMMUN may be available under the provision Its from the mailing date of this com respecified above is less than thirty (y is specified above, the maximum of the set or extended period for reply y the Office later than three months adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(munication. 30) days, a reply w statutory period will	(a). In no event within the statuto apply and will e	, however, may a reply be ti ry minimum of thirty (30) da expire SIX (6) MONTHS fron stion to become ABANDON!	mely filed ys will be considered timely n the mailing date of this co ED (35 U.S.C. § 133).	y. ommunication.				
Status										
2a) This action 3) Since this	Responsive to communication(s) filed on <u>01 March 2002</u> . This action is FINAL . 2b)⊠ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Clai		ş x te								
4) Claim(s) 1 4a) Of the 5) Claim(s) 6 Claim(s) 6 Claim(s) 6 Claim(s) 7 Claim(s) 6 Claim(s) 7 The specification Papers 10) The drawing Applicant response	above claim(s) is/ above claim(s) is/ is/are allowed. 1-5 is/are rejected is/are objected to. are subject to restr	are withdrawr fiction and/or of the Examiner. 002 is/are: a) fection to the dr ing the correction	election red .)⊠ acceptorawing(s) be	quirement. ed or b)⊡ objected held in abeyance. S d if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 C	FR 1.121(d).				
Priority under 35 U	J.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
	erson's Patent Drawing Review osure Statement(s) (PTO-1449			4) Interview Summa Paper No(s)/Mall 5) Notice of Informa 6) Other:	Date	⁻ O-152)				

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DETAILED ACTION

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claim 1, it is unclear about the position of the electrode in relating to the shower plate and the sample stage. Also, the limitation of "supplying a processing gas toward the... from the electrode arranged in opposed relation to the sample stage" describes the processing gas comes from the electrode, while the limitation of "neutralizing the charged particles which have entered the electrode from the plasma..." describes the charged particles from the plasma entering the electrode. It is unclear how the electrode can provide processing gas and also at the same time receive the charged particles.

The limitation of "applying RF power between...providing the charged particles in the plasma with the energy to enter the sample." It is unclear how the charged particles can enter the sample since it is not an implantation process.

The limitation of "neutralizing the charge particles which have entered the electrode...that have entered the sample" is vague. How is it that some charged particles are neutralized while leaving some other being charged to enter the sample?

Referring to claim 4, it is unclear how the charged particles entering the sample can etch the sample. It is unclear the position of the electrode in relation to the shower plate and the sample. The specification doesn't describe the shower plate arranged on the electrode that is in

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opposed relation to the sample. It is unclear where is the plasma in the limitation of "generating a plasma between the sample and the electrode" and the gas chamber in the limitation of "neutralizing the charged particles entering, from the plasma, formed between the electrode and the shower plate?" It is vague about the "space" where the plasma formed between the sample and the electrode and the "space" where the gas chamber formed the electrode and the shower plate.

- 3. It has not been able to determine the claims' patentability due to the indefinite problems of the claims as described above.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DuyVu n Deo whose telephone number is 571-272-1462. The examiner can normally be reached on 6:00-3:30; with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DVD

3/29/04

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